



COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY  
(Includes Reference to PCT International Applications)

ATTORNEYS DOCKET NUMBER

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A PULSE TUBE REFRIGERATOR

the specification of which (check only one item below):

☒ is attached hereto

☐ was filed as United States application  
Serial No. \_\_\_\_\_  
on \_\_\_\_\_  
and was amended  
on \_\_\_\_\_ (if applicable).

☐ was filed as .....

on \_\_\_\_\_  
and was amended under PCT Article 19  
on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations. §1.56(a).

I hereby claim foreign priority benefits under Title 35, United State Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
Germany	0226000.8	7 November 2002	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

Combined Declaration For Patent Application and Power of Attorney (Continued) (includes Reference to PCT international Applications)				ATTORNEYS DOCKET NUMBER																																																													
<p>I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national of PCT international filing date of this application:</p> <p>PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">U.S. APPLICATIONS</th> <th colspan="3" style="text-align: center;">STATUS (Check one)</th> </tr> <tr> <th style="width: 20%;">U.S. APPLICATION NUMBER</th> <th style="width: 30%;">U.S. FILING DATE</th> <th style="width: 20%;">PATENTED</th> <th style="width: 20%;">PENDING</th> <th style="width: 20%;">ABANDONED</th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">PCT APPLICATIONS DESIGNATING THE U.S.</th> <th style="width: 20%;">PATENTED</th> <th style="width: 20%;">PENDING</th> <th style="width: 10%;">ABANDONED</th> </tr> <tr> <th style="width: 20%;">PCT APPLICATION NO</th> <th style="width: 20%;">PCT FILING DATE</th> <th style="width: 40%;">U.S. SERIAL NUMBERS ASSIGNED (IF ANY)</th> <th> </th> <th> </th> <th> </th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>						U.S. APPLICATIONS			STATUS (Check one)			U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED																				PCT APPLICATIONS DESIGNATING THE U.S.			PATENTED	PENDING	ABANDONED	PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (IF ANY)																					
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<p><b>POWER OF ATTORNEY:</b> As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)</p> <p style="text-align: center;">Herbert I. Cantor, Reg. No. 24,392; James F. McKeown, Reg. No. 25,406; Donald D. Evenson, Reg. No. 26,160; Joseph D. Evans, Reg. No. 26,269; Gary R. Edwards, Reg. No. 31,824; and Jeffrey D. Sanok, Reg. No. 32,169</p>																																																																	
Send Correspondence to:				Direct Telephone Calls to:																																																													
Crowell Moring L.L.C. 1001 Pennsylvania Avenue N.W. Washington, D.C. 20005-3814				(name and telephone number)  (202) 624 2500																																																													
201	FULL NAME OF INVENTOR	FAMILY NAME <u>HUAIYU Pan</u>	FIRST GIVEN NAME <u>Pan Huaiyu</u>	SECOND GIVEN NAME																																																													
	RESIDENCE & CITIZENSHIP	CITY Oxford	STATE OR FOREIGN COUNTRY Great Britain	COUNTRY OF CITIZENSHIP Great Britain																																																													
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 21 Prestwich Place	CITY Oxford	STATE & ZIP CODE/COUNTRY OX2 0ED Great Britain																																																													
202	FULL NAME OF INVENTOR	FAMILY NAME HUGHES	FIRST GIVEN NAME Timothy	SECOND GIVEN NAME																																																													
	RESIDENCE & CITIZENSHIP	CITY Eynsham	STATE OR FOREIGN COUNTRY Great Britain	COUNTRY OF CITIZENSHIP Great Britain																																																													
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 38 Evans Road,	CITY Eynsham, Oxon	STATE & ZIP CODE/COUNTRY OX29 4QR Great Britain																																																													
203	FULL NAME OF INVENTOR	FAMILY NAME WHITE	FIRST GIVEN NAME Keith	SECOND GIVEN NAME																																																													
	RESIDENCE & CITIZENSHIP	CITY Abingdon	STATE OR FOREIGN COUNTRY Great Britain	COUNTRY OF CITIZENSHIP Great Britain																																																													
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 3 Inkerman Close	CITY Abingdon, Oxon	STATE & ZIP CODE/COUNTRY OX14 1NH, Great Britain																																																													
204	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME																																																													
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<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.</p>																																																																	
SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203	SIGNATURE OF INVENTOR 204																																																														
<u>Huaiyu Pan</u>	<u>Timothy John Stappell Hughes</u>	<u>Keith White</u>																																																															
DATE <u>03/11/03</u>	DATE <u>30-10-03</u>	DATE <u>30/10/03</u>	DATE																																																														